AlTaasis AlSaleem

Al-Taasis Al-Saleem Workbook

Science

جديد

كتب العلوم

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YOUR NO.1 CHOICE IN EGYPT

ذاكر بطريقة سهلة وممتعة مع كتاب التأسيس السليم

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شركة التأسيس السليم

Science Exam 1

1 A) Choose the correct answer:

- Water lilies live in ..... water.

(a) Flowing (b) Still (c) Freezing

B) Give a reason for each of the following:

(1) Wastewater engineers test the treated water.

▶ .....

(2) Water is considered a renewable resource.

▶ .....

(3) Water is one of the basics of the survival and growth of living organisms.

▶ .....

C) Gravitational forces are not limited to the Earth, Explain.

▶ .....

2 A) Complete the sentence:

- Passing of factory wastes on a small stream causes .....

B) Answer the following:

(1) The dolphins' aquatic ecosystem is ..... , and its water type is .....

(2) What is meant by tributaries? ▶ .....

(3) What is meant by biome? ▶ .....

(4) What is meant by wetlands? ▶ .....

3 A) Put (✓) or (✗):

(1) Water just beneath the ground level is known as oceans. ( )

(2) Water from the High Dam in Egypt is used to generate thermal energy. ( )

B) Answer the following:

(1) Mention one example of depletion of a resource with an explanation.

▶ .....

(2) Mention one example of interaction of the hydrosphere with the biosphere.

▶ .....

(3) Classify the following water bodies into saltwater and freshwater:

(groundwater – Amazon River – Indian Ocean – Red Sea – Bardawel Lake – rain)

4 A) Cross out the odd word:

(1) oceans – seas – rivers – gulf

(2) Dolphins – Moses fish – salamanders – starfish

B) Answer the following:

(1) What are the results of cutting down the forest trees?

▶ .....

(2) An object with a mass of 80 kilograms, and another object with a mass of 50 kilograms. Which of them is affected by more gravity if they are at the same height above Earth's surface?

▶ .....

(3) Mention a habit through which water consumption can be conserved (rationalized)?

▶ .....

Science Exam 2

1 A) Complete the sentence:

- When water flows on the ground, it transports water grains and rocks to another place, and this is seen in the phenomenon of ..... and the formation of .....

B) Give a reason for each of the following:

(1) Very small aquatic plants and animals can live in Lake Assal in Djibouti.

▶ .....

(2) Plants are considered a renewable resource. ▶ .....

(3) Scientists have used the word "sphere" to name each of the Earth's systems.

▶ .....

(4) Write what you know about ocean currents. ▶ .....

2 A) Choose the correct answer:

- If an object is projected vertically upwards, the object .....
  - (a) returns to Earth under the effect of gravity
  - (b) floats in space because there is no gravity
  - (c) clings because its gravity equals that of Earth
  - (d) moves fast towards space

B) Answer the following:

(1) Define air resistance. ▶ .....

(2) What is meant by sustainability? What are the factors that affect it?

▶ .....

(3) What is meant by preservation? ▶ .....

(4) What is one example of preserving a resource? ▶ .....

3 A) Correct the underlined words:

(1) Preservation of natural resources means giving access to or use of a resource. (.....)

(2) The ocean is an area of land where water flows in a specific path from a high altitude area to a lower altitude one. (.....)

B) Answer the following:

(1) Mention some of the tasks of wastewater treatment engineers.

▶ .....

(2) Mention two main risks that are related to freshwater and threaten the world.

▶ .....

(3) Mention the living organisms that live in a stream.

▶ .....

4 A) Put (✓) or (✗):

(1) There is more underground water on Earth than all the water found in rivers and lakes. ( )

(2) 20% of the world's animal species live only in freshwater habitats. ( )

B) What happens if.....?

(1) The Earth was not tilted on its axis ▶ .....

(2) People use more underground water than it is replaced.

▶ .....

(3) Identify the interaction that occurs between the Earth's ecosystem spheres in the decomposition of the body.

▶ .....

Science Exam 3

1 A) Complete the sentence:

- Plants need water to do .....

B) What happens if.....?

(1) Freshwater becomes scarce and of poor quality.

▶ .....

(2) The amount of rainfall is very little. ▶ .....

(3) The rainfall is more than the river can contain. ▶ .....

(4) Cows start eating all the grass before the new grass grows.

▶ .....

2 A) Choose the correct answer:

- The force that originates between two touching surfaces and causes the slowing of motion is called ..... force.

  (a) pushing (b) dragging (c) friction (d) pulling

B) Define the following:

(1) Estuary: ▶ .....

(2) Abyssal zone: ▶ .....

(3) Watershed: ▶ .....

C) What is gravity? ▶ .....

3 A) Mention the Earth's interacting systems:

(1) Earthworms live in the soil and use it as a shelter for themselves. (.....)

(2) Breaking down of rocks by the effect of running water. (.....)

B) Give a reason for each of the following:

(1) Few plants can grow in Lake Assal. ▶ .....

(2) No green plants can survive in the abyssal zones of the ocean.

▶ .....

(3) Why do the moon phases change during the lunar month?

▶ .....

4 A) Put (✓) or (✗):

(1) Oceans are an example of a saltwater ecosystem. ( )

(2) The deep areas of the oceans that sunlight cannot reach are called shallow zones. ( )

B) Explain:

(1) Poor water quality puts amphibians at risk of extinction.

▶ .....

(2) The total amount of water doesn't change. ▶ .....

(3) Practical ways to rationalize the consumption of water.

▶ .....

Science Exam 4

1 A) Complete the sentence:

- Saltwater represents about ..... % of the Earth's surface.

B) What happens if.....?

(1) A river meets a sea? ▶ .....

(2) Water changes from one state to another (relative to its total quantity)?

▶ .....

(3) What is the force that causes the car to stop when we use the brake?

▶ .....

C) What is friction? ▶ .....

2 A) Choose the correct answer:

- The acting force on the moon to make it rotate around the Earth is .....

(a) Earth's gravity (b) Sun's gravity (c) Moon's gravity (d) Mars's gravity

B) Give a reason for each of the following:

(1) The Sun looks much larger to us than other stars.

▶ .....

(2) Most of the freshwater on Earth can't be used for drinking.

▶ .....

(3) Preservation of natural resources. ▶ .....

(4) Jellyfish cannot live in ponds. ▶ .....

3 A) Determine:

(1) A body of water surrounded by land, which is often fresh, but sometimes salty. (.....)

(2) A place where water flows from an area of high altitude to an area with lower altitude in a definite path. (.....)

B) Define:

(1) Intertidal zones: ▶ .....

(2) Ponds: ▶ .....

(3) Wetland: ▶ .....

4 A) Write what the following statement refers to:

(1) Small streams that flow into larger rivers. (.....)

(2) A type of friction force that occurs due to the movement of objects in the air. (.....)

B) Explain:

(1) Occurrence of high tide and low tide.

▶ .....

(2) The importance of sustainability.

▶ .....

(3) Mention the reasons that can lead to drought.

▶ .....

Science Exam 5

1 A) Complete the sentence:

- The interaction between the geosphere and the biosphere, where ..... provides nutrients for plants.

B) Explain:

(1) How organisms are affected by the pollution of a water source.

▶ .....

(2) Does the total amount of water on the Earth's surface change?

▶ .....

(3) Whales live in the oceans.

▶ .....

(4) Mention some examples of the interaction of the biosphere and the hydrosphere on Earth's surface.

▶ .....

2 A) Choose the correct answer:

- A parachute helps in .....
  - (a) increasing the velocity of an object falling to the ground
  - (b) slowing down the velocity of the object falling to the ground
  - (c) decreasing the air resistance against the falling object
  - (d) increasing the drag on the object towards the gravity

B) What happens if...?

(1) Paper and clothes pegs are thrown at the same time from the window on the floor.

▶ .....

(2) Water is collected in a low-lying area? ▶ .....

(3) The state of water when it is subjected to extreme cold weather.

▶ .....

(4) Overfishing happens in a city? ▶ .....

3 A) Put (✓) or (✗):

(1) An estuary's water increases when the amount of water in upstream decreases. ( )

(2) Generating electricity is from the use of river's water. ( )

B) Define:

(1) Conservation of natural resources: ▶ .....

(2) A glacier: ▶ .....

(3) Lithosphere: ▶ .....

4 A) Mention one example for each:

(1) A salty lake: ▶ .....

(2) A biome: ▶ .....

B) Give a reason for each of the following:

(1) Society needs to move toward resource sustainability.

▶ .....

(2) The importance of wastewater plants. ▶ .....

(3) The length and angle of shadows vary throughout the day.

▶ .....

Science Exam 6

1 A) Choose the correct answer:

● The Earth ..... on its axis every .....

(a) revolves / 12 hours (b) rotates / 24 hours

(c) revolves / month (d) rotates / year

B) Answer the following:

(1) What causes the cycle of day and night? ▶ .....

(2) Why do the Sun, planets, and stars appear to move across the sky (the apparent motion of the Sun)?

▶ .....

(3) What keeps the moon in orbit around Earth? What keeps it from crashing into Earth?

▶ .....

(4) What other activities demonstrate gravity's downward pull?

▶ .....

2 A) Choose the correct answer:

● The Moon orbiting Earth, and the reflection of sunlight on it, leads to the formation of .....

(a) constellation (b) circular motion

(c) planets attraction (d) Moon phases

B) Answer the following:

(1) Predict what would happen to the gravitational force between Earth and the moon if the moon were twice as far from Earth.

▶ .....

(2) Who discovered that the sun is the center of the solar system?

▶ .....

(3) How does gravity affect the movement of objects? ▶ .....

(4) Why is it important for planetarium directors to know about stars, constellations, and other bodies in the universe?

▶ .....

3 A) Choose the correct answer:

(1) Fresh water that seeps under Earth's surface through a layer of porous rock is .....

(a) Mediterranean sea water (b) Bahr Al Baqar plant water

(c) Assal lake (d) groundwater

(2) ..... are part of the geosphere.

(a) Plants (b) Rocks (c) Gases (d) Water bodies

B) Answer the following:

(1) Where does the light we see when observing the moon come from?

▶ .....

(2) What are some of the shapes we see when observing the moon?

▶ .....

(3) Explain what causes the moon to appear to have different shapes or phases.

▶ .....

4 A) Choose the correct answer:

(1) An area of land where water flows in a specific path from a high altitude area to a lower altitude area is .....

(a) river (b) sea (c) lake (d) ocean

(2) It results from biosphere and atmosphere interaction .....

(a) availability of oxygen gas (b) soil fertility

(c) increased pollution (d) photosynthesis

B) Answer the following:

(1) The stability of objects on the Earth's surface. ▶ .....

(2) What makes the Moon look bright in the sky? ▶ .....

(3) Why does the appearance of the night sky change in different seasons?

▶ .....

Science Exam 7

1 A) Choose the correct answer:

● An example of a saltwater ecosystem is .....

(a) Nile River (b) Assal lake (c) a glacier (d) Nasser Lake

B) Answer the following:

(1) How might knowledge of the constellations' locations in the night sky help someone who is lost?

▶ .....

(2) Why is there no moon appears in the last day of the lunar month?

▶ .....

(3) Why was it important to keep the orientation and location of the sundial the same each day?

▶ .....

(4) What are two factors that affect the length and angle of a shadow?

▶ .....

2 A) Choose the correct answer:

● Planets continue revolving around the sun in fixed orbits under the effect of .....

(a) Earth's gravity (b) Sun's gravity (c) Planet's gravity (d) Moon's gravity

B) Answer the following:

(1) Explain the difference between conservation, preservation, and sustainability of natural resources.

▶ .....

(2) Describe the characteristics of saltwater ecosystems and freshwater ecosystems. Give examples of living organisms found in each.

▶ .....

C) Give a reason for each of the following:

(1) The occurrence of the Moon phases. ▶ .....

(2) The atmosphere is a protective layer that surrounds Earth.

▶ .....

3 A) Choose the correct answer:

(1) From the materials that are attracted to the magnet .....

(a) iron and nickel (b) aluminum and copper

(c) silver and gold (d) aluminum and silver

(2) The sequence of day and night is due to .....

(a) revolution of the Moon around the Earth (b) revolution of the Earth around the sun

(c) rotation of the Moon around its axis (d) rotation of the Earth around its axis

B) Answer the following:

(1) What is the importance of the gravitational force? ▶ .....

(2) Why dose the skydiver appear to be swimming in space? ▶ .....

(3) What makes the planets revolve in fixed orbits around the Sun?

▶ .....

4 A) Choose the correct answer:

(1) Pollution of seawater leads to .....

(a) pollution of the water of a tributary (b) pollution of the ocean's water

(c) pollution of water streams (d) wetland pollution

(2) Wastewater engineers work in Egypt in .....

(a) Ras Mohamed Reserve (b) Qarun Lake

(c) Bahr El Baqar plant (d) electrical power plant

B) Answer the following:

(1) Mention some of the tasks of sanitation engineers ▶ .....

(2) What is the result of the inclination of Earth on its axis? ▶ .....

(3) What is the evidence we get from the appearance of the Orion constellation in the sky?

▶ .....

Science Exam 8

1 A) Choose the correct answer:

- Moon seems to be lighted in the sky due to .....
  - (a) reflection of Earth's light on the Moon's surface
  - (b) reflection of the star's light on the Moon's surface
  - (c) reflection of sunlight on the Moon's surface
  - (d) self-lighting of the Moon at night

B) Answer the following:

(1) Heat and light energies of the Sun result from .....

(2) The illumination and the shining of the stars in the sky are evidence that .....

(3) "We must conserve and protect all natural resources from being drained."
Explain this phrase. ▶ .....

(4) Mention two tools used to discover the universe and study the stars.
▶ .....

2 A) Choose the correct answer:

- The idea of a sundial depends on .....
  - (a) formation of shadows
  - (b) rotation of the object around its axis
  - (c) motion of the moon
  - (d) falling objects under the effect of gravity

B) Answer the following:

(1) What celestial bodies do we see? ▶ .....

(2) What is meant by watershed? ▶ .....

(3) Mention the factors that affect gravity between two objects.
▶ .....

(4) Mention the factors affecting the gravity of Earth.
▶ .....

3 A) Determine:

(1) The closest star to Earth. (.....)

(2) The type of water in Lake Nasser. (.....)

B) Answer the following:

(1) Two uses of water. ▶ .....

(2) Two concerns related to freshwater. ▶ .....

(3) What happens if there is no water on Earth?

▶ .....

4 A) Determine:

(1) The fastest rotating planet on its axis in the Solar System. (.....)

(2) An imaginary line passing through the North Pole to the South Pole of Earth. (.....)

B) Answer the following:

(1) Look at the picture and mention its name and its function

▶ .....

(2) Explain how the moon stays in a fixed orbit around the Earth.

▶ .....

(3) Explain how the Sun produces its heat and light.

▶ .....

Science Exam 9

1 A) Complete the sentence:

(1) The farthest planet on its axis in the solar system is .....

(2) The object at rest needs ..... to move.

B) What is the importance of:

(1) The Hubble Telescope. ▶ .....

(2) The water filter. ▶ .....

(3) Telescopes ▶ .....

(4) Wastewater treatment plants. ▶ .....

2 A) Choose the correct answer:

● The illuminated moon in the shape of a circle is called .....

(a) first quarter (b) first crescent (c) full moon (d) gibbous

B) What is meant by:

(1) Hydrosphere? ▶ .....

(2) Constellation? ▶ .....

C) What is the importance of the moon's gravity on Earth?

▶ .....

D) What is one of the largest water treatment plants in the world?

▶ .....

3 A) Put (✓) or (✗):

(1) Stars are solid objects made up of rocks. ( )

(2) The force of a magnet is always attractive only. ( )

B) Explain:

(1) What is the difference between the types of water in seas and streams?

▶ .....

(2) What was the importance of the sundial in ancient times?

▶ .....

(3) Compare the between oceans and streams.

OCEANS	STREAMS
.....	.....

4 A) Correct the underlined words:

(1) The revolution of Earth around the Sun causes the cycle of day and night. (.....)

(2) The force that opposes the object's motion in the air is called magnetism. (.....)

B) Mention the Earth's interacting systems in the following:

(1) Rain water helps plants grow?

▶ .....

(2) The breaking down of rocks by the effect of running water.

▶ .....

(3) The photosynthesis process. ▶ .....

Science Exam 10

1 A) Complete the sentence:

(1) Earth pulls the Moon, keeping it in ..... around Earth.

(2) The side of Earth that faces the Sun has .....

B) Define:

(1) wastewater: ▶ .....

(2) A lake: ▶ .....

(3) Galaxy: ▶ .....

(4) Atmosphere: ▶ .....

2 A) Choose the correct answer:

- The force of ..... pulls objects toward the center of Earth.

(a) wind (b) air resistance (c) push (d) gravity

B) What happens if.....?

(1) The distance between Earth and the Moon doubled compared to its gravitational force.

▶ .....

(2) The Earth stopped rotating on its axis.

▶ .....

(3) There is no gravity on Earth. ▶ .....

(4) The Earth revolves around the Sun. ▶ .....

3 A) Cross out the odd word and give a reason:

(1) Friction – air resistance – gravity – light energy ▶ .....

(2) moons – planets – plants – stars ▶ .....

(3) Iron – Copper – Nickel – Cobalt ▶ .....

B) What is meant by:

(1) ocean currents. ▶ .....

(2) Shallow areas. ▶ .....

(3) Wetland. ▶ .....

4 A) Write the scientific term:

(1) Change of water from a liquid state into a gaseous state. (.....)

(2) A water body that is surrounded by land. (.....)

(3) An elliptical path in which the planet revolves around the Sun. (.....)

(4) The force that causes objects to fall. (.....)

B) Answer the following:

(1) Classify the following by using suitable Earth's spheres:

(Geosphere – Atmosphere – Biosphere – Hydrosphere)

(a) Water in the river. ▶ .....

(b) Minerals in rocks ▶ .....

Model Answer

Exam (1)

1 **A)** Still
B) (1) They test the treated water to make sure it is safe before it is used by humans.
(2) Because it can be renewed through the water cycle.
(3) Because all plants and animals need water for survival.
C) because they exist between any two objects and between all celestial bodies in the solar system.

2 **A)** water pollution
B) (1) marine (or ocean) - saltwater
(2) Streams that flow into bigger rivers.
(3) A large area characterized by greenery, soil, climate, and wildlife that is distinguished from other biomes.
(4) An above-ground land area partially covered with water, such as swamps and ponds.

3 **A)** (1) ✗ (2) ✗
B) (1) Overfishing is an example of depletion and as a result the fish will become more scarce.
(2) Plants absorbing water from the soil, or animals drinking water from a lake or river.
(3) - Saltwater: Indian Ocean, Red Sea, Bardawel Lake.
- Freshwater: groundwater, Amazon River, rains.

4 **A)** (1) Rivers - Rivers are freshwater.
(2) Salamanders - Salamanders live in freshwater ponds.
B) (1) It leads to deforestation and destroying of renewable resources.
(2) The object has a mass of 80 kilograms.
(3) Turn off the faucet while brushing your teeth.

Exam (2)

1 **A)** erosion - lakes
B)(1)Because it has a high concentration of salt.
(2)Because they can grow back or be reproduced.
(3)Because Earth's shape is considered a sphere.
(4)Ocean water circulates around the world in patterns.

2 **A)** a
B)(1) it's the upward flow of wind that can pull skydivers backward and slow their fall to Earth. It is a force that opposes motion through the air.
(2) Sustainability means using a resource in a way that does not negatively affect its future availability. Factors that affect it are overconsumption of resources and pollution.
(3) Preservation of natural resources means restricting access to or use of a resource.
(4)Establishing protected areas of land, such as Ras Mohammed Protectorate.

3 **A)**(1) restricting. (2) A river.
B)(1) They design, make tools and plan way that provides us with clean water.
(2) Scarcity of freshwater resources and it's poor quality.
(3) Catfish and salmon.

4 **A)**(1) ✓ (2) ✗
B)(1) the climate and daylight patterns and seasons would become uniform throughout the year.
(2) The water will run out and the wells will dry up.
C) This is an interaction between the biosphere (the body) and the Geosphere (the soil).

Exam (3)

1 **A)** photosynthesis and grow
B)(1)It leads to thousands of deaths each year and puts many fish and amphibians at risk of extinction.
(2)The level of water in streams and rivers will drop,and they may dry up (drought).
(3)There will be flooding and damaging buildings and deaths.
(4)The grass would be gone, and the cows would starve. This is an unsustainable situation.

2 **A)** c
B)(1) Estuary: It is where a river meets the ocean or sea.
(2) Abyssal zone: It is the deepest area of the ocean that sunlight cannot reach.
(3)Watershed: It is an area of land where all the water that flows across it drains downhill to a common location.
C) A force of attraction between objects that pulls them toward each other.

3 **A)** (1) Biosphere and Geosphere.
(2) Hydrosphere and Geosphere.
B) (1) Because it is too salty for most aquatic animals
(2) Because sunlight cannot reach it, and plants need sunlight for photosynthesis.
(3) Due to it's revolution around Earth in elliptical orbit.

4 **A)**(1) ✓ (2) ✗
B) (1) Because they rely on freshwater to live, and breath throw skin from water, so polluted water can kill them or damage their habitat.
(2) Because it is recycled and reused through the water cycle, even if its state changes from liquid to solid to gas.
(3) Close faucets while brushing our teeth.

Exam (4)

1 **A)** 96.5%
B) (1) It forms an estuary, which is an ecosystem home to thousands of plants and animals.
(2) The total amount of water on Earth does not change.
(3) Friction.
C) The force that opposes motion of objects or slows it down.

2 **A)** a
B) (1) Because it is much nearer to Earth than other stars.
(2) Because most of it is frozen in glaciers or is groundwater that is not easily accessible.
(3) To protect resources so they can't be drained or used up.
(4)Because ponds are freshwater ecosystems, and jellyfish live in saltwater ecosystems.

3 **A)** (1) Lake. (2) River.
B) (1) Intertidal zones: The area along the coast that is underwater at high tide and exposed during low tide.(2) Ponds: A freshwater ecosystem where water is still and may be present all year or dry up in summer.
(3) Wetland: An above-ground land area partially covered with water, such as swamps and ponds.

4 **A)** (1) Tributaries. (2) Air resistance.
B) (1) This occurs due to the gravitational pull of the moon on Earth's water.
(2) It ensures that we use resources in a way that does not negatively affect their availability.
(3) Reasons include too little rainfall for long time.

Exam (5)

1 **A)** soil
B) (1) Pollution can harm or kill the organisms that live in the water and may affect other water sources downstream.
(2) No, it does not change, even if its state changes.
(3) As whales live only in saltwater ecosystems.
(4) - Animals drinking water. - Fish living in rivers and oceans.
- Plants absorbing water.

2 **A)** b
B) (1) The clothes peg will hit the ground first because air resistance slows the paper more than the peg because of it's low weight.
(2) It forms a lake.
(3) It changes from liquid to solid (ice).
(4) The fish become scarce, and fishing opportunities decrease after that.

3 **A)**(1) ✗ (2) ✓
B) (1) Using of natural resources wisely so there will be enough when we need them.
(2) A glacier: A large body of ice that is part of the hydrosphere.
(3) Lithosphere:(Geosphere) that contains things such as rocks and landforms.

4 **A)**(1) Salty lake: Lake Assal in Djibouti or Lake Bardawel in Egypt.
(2) Biome: Deserts, forests, or wetlands.
B) (1) So they are available for future generations.
(2) To treat it so it can be used again for other purposes.

(3) Because the sun appears to change it's site throughout the day.

Exam (6)

1 **A)** b
B) (1) Earth's rotation on its axis.
(2) Because Earth rotates from west to east, making it seem as if the sun and the stars are moving across the sky.
(3) Earth's gravity keeps the Moon in orbit. The Moon's side ways motions keeps it from crashing into Earth.
(4) Water flowing down a river, and a skydiver falling toward Earth.

2 **A)** d
B) (1) The gravitational force would be weaker.
(2) Nicolaus Copernicus.
(3) Gravity pulls objects toward the bigger objects.
(4) So they can educate people about space and operate the planetarium effectively.

3 **A)** (1) d (2) b
B) (1) The sun. The moon reflects sunlight.
(2) Crescent, quarter, gibbous, and full moon.
(3) The moon's revolution around Earth changes how much of its sunlit side we can see.

4 **A)** (1) a (2) d
B) (1) Due to gravity that pulls things downward.
(2) It reflects the light of the sun.
(3) Because as Earth revolves around the sun, we are looking in a different direction in space at night.

Exam (7)

1 **A)** b
B) (1)They can use the stars to find direction, like using the North Star to find north.
(2)Because it's new moon where all the moon's face that facing earth becomes completely dark.
(3) If it is turned, the shadow will tell the wrong time.
(4) The position of the sun in the sky and the time of day.

2 **A)** b
B) (1)Conservation: It involves less using resources so they are not wasted.
- Preservation: Restricting access to or use of a resource.
- Sustainability: Using a resource wisely that does not negatively affect the future availability.
(2) Saltwater: is a large connected water bodies that is salty like seas and oceans.
Freshwater: water can be used by humans like still water (ponds and lakes) or flowing (rivers and streams).
C) (1) Because the moon revolves around Earth, changing how much of its sunlit side we see.
(2) It lets some light waves through and blocks others, acting like a protective blanket.

3 **A)** (1) a (2) d
B) (1) It holds our solar system together, keeps planets in orbit, and keeps us on the ground.
(2) Because the skydiver increases air resistance when opening the parachut.
(3) The sun's powerful gravitational force.

4 **A)** (1) b (2) c
B) (1)Designing and making tools that provide clean water. Monitoring water quality and testing treated water to ensure it is safe.
(2)differences in sunrise time and the sunset time, day after another.
(3) It's evidence of the rotation of Earth around its axis, and the revolution of Earth around the sun.

Exam (8)

1 **A)** c
B) (1)the reaction of gases (hydrogen and helium) inside the sun.
(2) they are composed of extremely hot gases.
(3) We need to use resources responsibly so they are not used up and will be available for future generations.
(4) Telescopes (like the Hubble Space Telescope) and binoculars (like Galileo's binoculars).

2 **A)** a
B) (1) Galaxies, Stars, Planets and Moons.
(2) An area of land where all the water that flows across it drains downhill to a common location.
(3) The mass of the objects and the distance between them.
(4) The mass of Earth and the distance from its center.

3 **A)** (1) The sun. (2) Fresh water.
B) (1)Drinking and irrigation (or generating electricity, cooking, etc.).
(2) 1- the scarcity of fresh water,
2- the poor quality of water.
(3) All living organisms would die, and there would be no life on the Earth's surface.

4 **A)** (1) Jupiter. (2) The axis.
B) (1)A water filter. Its function is to turn dirty water into clean water.
(2) Earth's gravity pulls the moon toward it, and the moon's side ways motion keeps in a stable orbit.
(3) The sun is made mostly of hydrogen and helium. that burns, and release huge amounts of light and heat energy.

Exam (9)

1 **A)** (1) Neptune. (2) a force.
B) (1)It helps us take a closer look at the surface of the moon, asteroids, planets, and stars.
(2) It can turn dirty water into clean water.
(3) They help us see distant objects in space in greater detail.
(4) They treat used water so it can be used again for other purposes.

2 **A)** c
B) (1)The system that contains all water on Earth, such as oceans, seas, rivers, and groundwater.
(2) A group of stars that looks like a certain shape in the sky.
C) It causes tides (high tide and low tide).
D) The Bahr Al Baqar wastewater treatment plant in Egypt.

3 **A)** (1) ✗ (2) ✗
B) (1) Seas contain saltwater, while streams contain freshwater.
(2) It was used to tell time by tracking the movement of shadows.
(3) - Compare the table between oceans and streams.
-Oceans: Large bodies of saltwater that are connected.
- Streams: Small, flowing bodies of freshwater.

4 **A)** (1) Correction: rotation. (2) Correction: air resistance.
B) (1) Biosphere and Hydrosphere.
(2) Hydrosphere and Geosphere.
(3) Biosphere and Atmosphere.

Exam (10)

1 **A)** (1) orbit. (2) day.
B) (1) - Wastewater: Water that has already been used.
(2) Lake: A large body of water surrounded by land. Most lakes contain freshwater.
(3) Galaxy: A large system of stars, gas, and planets.
(4) Atmosphere: The system that contains all the gases that surround Earth.

2 **A)** d
B) (1)The gravitational force would decrease
(2) There would be no day or night.
(3) Objects would not be held to the ground and The moon would not orbit Earth.
(4) It causes the seasons and the apparent movement of the sun and stars.

3 **A)** (1) Light energy, It's not a force.
(2) Plants, It's not a celestial body.
(3) Copper is the only one that is not attracted to a magnet.
B)(1) Patterns in which ocean water circulates the world.
(2) the area along the coast that is underwater at high tide and exposed during low tide.
(3) Wetland: An above-ground land area partially covered with water, such as swamps and ponds.

4 **A)** (1) Evaporation. (2) Lake. (3) Orbit. (4) Gravity.
B) (1) Classify the following by using suitable Earth's spheres:
- Water in the river:Hydrosphere.
- Minerals in rocks: Geosphere.

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